ABSTRACT OF THE DISCLOSURE

A niosome having a metalloporphyrin complex embedded therein comprising a cationized metalloporphyrin complex and a niosome-forming substance. The niosome having a metalloporphyrin complex embedded therein has an SOD activity, can interact with superoxide anionic radicals ($O_2^{-}\cdot$) as a target, and can reduce these radicals without fail. The niosome having a metalloporphyrin complex embedded therein can reach cells in living bodies such as cancer cells due to properties of a niosome. Therefore, the niosome having a metalloporphyrin complex embedded therein can exhibit an excellent effect of treating cancer by reducing O2-· in cancer cells. In addition, since the effect is selective, the niosome can be used as a novel anticancer agent without side effects. Moreover, the niosome having a metalloporphyrin complex embedded therein can be retained in the blood while exhibiting a superior antioxidation effect. The niosome can thus protect living bodies from hindrance brought about by active oxygen species.